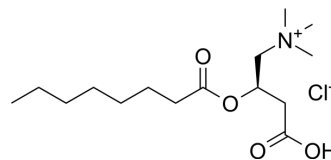


L-Octanoylcarnitine hydrochloride

Cat. No.:	HY-W354498		
CAS No.:	54377-02-5		
Molecular Formula:	C ₁₅ H ₃₀ ClNO ₄		
Molecular Weight:	323.86		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (308.78 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.0878 mL	15.4388 mL	30.8775 mL
	5 mM	0.6176 mL	3.0878 mL	6.1755 mL
	10 mM	0.3088 mL	1.5439 mL	3.0878 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

L-Octanoylcarnitine hydrochloride is a plasma metabolite and a physiologically active form of octanoylcarnitine. L-Octanoylcarnitine hydrochloride can be used for the research of breast cancer^{[1][2][3]}.

In Vitro

L-Octanoylcarnitine hydrochloride (0.2 mM) induces H₂O₂ release of rat liver mitochondria (RLM)^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

L-Octanoylcarnitine hydrochloride decreases mucosal and detrusor force-flow respiration and respiratory conductance in male high fat diet (HFD) mice^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Schönfeld P, Reiser G. Inhibition of β -oxidation is not a valid therapeutic tool for reducing oxidative stress in conditions of neurodegeneration. *J Cereb Blood Flow Metab.* 2017 Mar;37(3):848-854.

[2]. Hanna Kosnik, et al. CHRONIC HIGH FAT DIET IMPAIRS DETRUSOR MITOCHONDRIAL FATTY ACID OXIDATION IN MALE BUT NOT FEMALE MICE. Journal of Urology/Bladder & Urethra: Anatomy, Physiology & Pharmacology I (MP11)1 Apr 2019.

[3]. Kim M, et al. Association between arterial stiffness and serum L-octanoylcarnitine and lactosylceramide in overweight middle-aged subjects: 3-year follow-up study. PLoS One. 2015 Mar 17;10(3):e0119519.

Caution: Product has not been fully validated for medical applications. For research use only.

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